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(FILE 'HOME' ENTERED AT 15:37:13 ON 22 APR 2004)  
SET COST OFF

FILE 'REGISTRY' ENTERED AT 15:37:25 ON 22 APR 2004  
E IMIDACLOPRID/CN

L1 1 S E3  
E PERMETHRIN/CN  
L2 1 S E3  
SEL RN L1  
L3 172 S E1/CRN  
SEL RN L2  
L4 253 S E2/CRN  
L5 1 S L3 AND L4  
L6 0 S L3 NOT MXS/CI  
L7 5 S L4 NOT MXS/CI

FILE 'HCAPLUS' ENTERED AT 15:38:49 ON 22 APR 2004

L8 3 S L5  
L9 1327 S L1  
L10 1325 S IMIDACLOPRID?  
L11 163 S GAUCHO OR CONFIDOR OR PROVADO  
L12 1506 S L9-L11  
L13 4613 S L2  
L14 4425 S PERMETHRIN?  
L15 5154 S COOPER OR AMBUSH  
L16 4 S L7  
L17 10208 S L13-L16  
L18 85 S L12 AND L17  
L19 1 S L18 AND (US20020103233/PN OR WO2001-US44084/AP, PRN)  
L20 1 S L18 AND ARTHUR R?/AU  
L21 5 S L18 AND BAYER?/PA,CS  
L22 5 S L19-L21  
L23 6 S L8,L22  
L24 26 S L18 AND MIX?  
L25 3 S L23 AND L24  
L26 6 S L23,L25  
L27 48 S L18 AND (COMPOSITION OR FORMUL? OR SYNERG? OR COMBIN?)  
L28 80 S L18 NOT L26  
L29 80 S L28 AND L18-L28  
L30 47 S L29 AND (PD<=20001130 OR PRD<=20001130 OR AD<=20001130)  
L31 46 S L30 AND (INSECT? OR PEST? OR ACARICID?)  
L32 44 S L30 AND AGR?/SC,SX  
L33 29 S L30 AND AGR/RL  
L34 47 S L30-L33  
SEL DN AN 6 L34  
L35 1 S E3-E5 AND L34  
L36 7 S L26,L35

=> fil hcaplus

FILE 'HCAPLUS' ENTERED AT 15:55:34 ON 22 APR 2004  
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FILE COVERS 1907 - 22 Apr 2004 VOL 140 ISS 17  
FILE LAST UPDATED: 21 Apr 2004 (20040421/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d l36 all hitstr tot

L36 ANSWER 1 OF 7 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:772149 HCAPLUS

DN 137:243440

ED Entered STN: 10 Oct 2002

TI Dermally-applicable liquid ectoparasiticide formulations for animals

IN Sirinyan, Kirkor; Dorn, Hubert; Gilges, Martin; Hansen, Olaf

PA **Bayer AG, Germany**

SO Ger. Offen., 10 pp.

CODEN: GWXXBX

DT Patent

LA German

IC ICM A01N053-06

ICS A01N043-50

CC 5-4 (Agrochemical Bioregulators)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 10117676	A1	20021010	DE 2001-10117676	20010409
	WO 2002087338	A1	20021107	WO 2002-EP3619	20020402
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	EE 200300490	A	20031215	EE 2003-490	20020402
	EP 1379138	A1	20040114	EP 2002-766612	20020402
	R:				
	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	NO 2003004512	A	20031201	NO 2003-4512	20031008
PRAI	DE 2001-10117676	A	20010409		
	WO 2002-EP3619	W	20020402		

AB The title formulations comprise **permethrin** 35-60, **imidacloprid** or its analogs 2.5-12.5, N-methylpyrrolidone 27.5-62.5, water 0-5, phenolic antioxidants 0-0.5 and organic acids 0-0.5 % by weight

ST animal skin liq ectoparasiticide formulation

IT Cat (Felis catus)

Dog (Canis familiaris)

Mite and Tick

Pesticide formulations

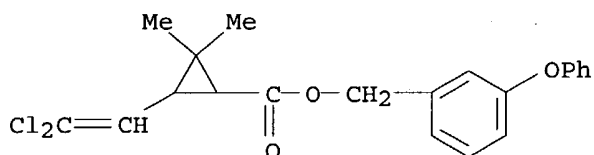
Siphonaptera

(dermally-applicable liquid ectoparasiticide formulations for animals)

IT Parasitocides

(ecto-; dermally-applicable liquid ectoparasiticide formulations for animals)

- IT 52645-53-1D, Permethrin, mixts. with  
imidacloprid analogs 133366-73-1, Permethrin-  
imidacloprid mixture 461009-25-6, Permethrin  
-Ti-435 mixture 461009-26-7, Permethrin-diaclofen  
mixture  
RL: AGR (Agricultural use); BUU (Biological use, unclassified); BIOL  
(Biological study); USES (Uses)  
(dermally-applicable liquid ectoparasiticide formulations for animals)
- IT 872-50-4, N-Methylpyrrolidone, uses  
RL: MOA (Modifier or additive use); USES (Uses)  
(dermally-applicable liquid ectoparasiticide formulations for animals  
containing)
- IT 52645-53-1D, Permethrin, mixts. with  
imidacloprid analogs 133366-73-1, Permethrin-  
imidacloprid mixture  
RL: AGR (Agricultural use); BUU (Biological use, unclassified); BIOL  
(Biological study); USES (Uses)  
(dermally-applicable liquid ectoparasiticide formulations for animals)
- RN 52645-53-1 HCAPLUS
- CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-,  
(3-phenoxyphenyl)methyl ester (9CI) (CA INDEX NAME)

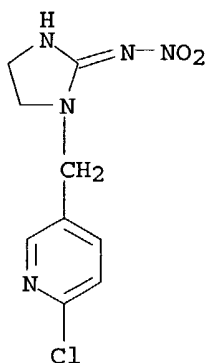


- RN 133366-73-1 HCAPLUS
- CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-,  
(3-phenoxyphenyl)methyl ester, mixt. with 1-[(6-chloro-3-pyridinyl)methyl]-  
N-nitro-2-imidazolidinimine (9CI) (CA INDEX NAME)

CM 1

CRN 138261-41-3

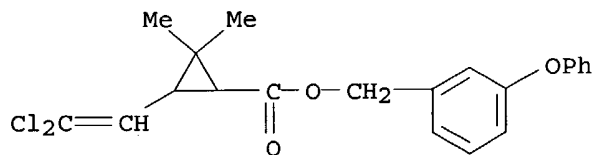
CMF C9 H10 Cl N5 O2



CM 2

CRN 52645-53-1

CMF C21 H20 Cl2 O3



L36 ANSWER 2 OF 7 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:428627 HCAPLUS

DN 137:1951

ED Entered STN: 07 Jun 2002

TI Synergistic insecticidal and acaricidal compns. containing neem extract

IN Baron, Gerhard; Kilian, Michael; Rosenfeldt, Frank

PA Bayer Aktiengesellschaft, Germany

SO PCT Int. Appl., 22 pp.

CODEN: PIXXD2

DT Patent

LA German

IC ICM A01N065-00

CC 5-4 (Agrochemical Bioregulators)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002043496	A2	20020606	WO 2001-EP13340	20011119
	WO 2002043496	A3	20020829		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	DE 10059606	A1	20020606	DE 2000-10059606	20001201
	AU 2002018304	A5	20020611	AU 2002-18304	20011119
	EP 1339288	A2	20030903	EP 2001-998148	20011119
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	US 2004052878	A1	20040318	US 2003-432979	20031003
PRAI	DE 2000-10059606	A	20001201		
	WO 2001-EP13340	W	20011119		
AB	The title compns. comprise neem seed extract and any of 35 known insecticides and acaricides.				
ST	synergism insecticide acaricide neem ext				
IT	Margosa (Melia azadirachta) (extract, <b>mixts.</b> containing; synergistic insecticidal and acaricidal compns.)				
IT	Pyrethrins RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (neem extract <b>mixts.</b> containing; synergistic insecticidal and acaricidal composition)				
IT	Acaricides Insecticides (synergistic; compns. containing neem extract)				
IT	60-51-5D, Dimethoate, <b>mixture</b> with neem extract 114-26-1D, Propoxur, <b>mixture</b> with neem extract 2032-65-7D, Methiocarb, <b>mixture</b> with neem extract 23103-98-2D, Pirimicarb, <b>mixture</b> with neem extract 34681-10-2D, Butocarboxim, <b>mixture</b> with neem extract 35367-38-5D, Diflubenzuron, <b>mixture</b> with neem extract 39515-41-8D,				

Fenpropathrin, **mixture** with neem extract 42509-80-8D, Isazophos, **mixture** with neem extract 52315-07-8D, Cypermethrin, **mixture** with neem extract 52645-53-1D, Permethrin, **mixture** with neem extract 52918-63-5D, Deltamethrin, **mixture** with neem extract 64628-44-0D, Triflumuron, **mixture** with neem extract 66215-27-8D, Cyromazine, **mixture** with neem extract 68359-37-5D, Cyfluthrin, **mixture** with neem extract 69327-76-0D, Buprofezin, **mixture** with neem extract 71751-41-2D, Abamectin, **mixture** with neem extract 78587-05-0D, Hexythiazox, **mixture** with neem extract 80060-09-9D, Diafenthiuron, **mixture** with neem extract 91465-08-6D, Lambda-cyhalothrin, **mixture** with neem extract 96489-71-3D, Pyridaben, **mixture** with neem extract 111988-49-9D, Thiacloprid, **mixture** with neem extract 112636-83-6D, Dicyclanil, **mixture** with neem extract 119168-77-3D, Tebufenpyrad, **mixture** with neem extract 120068-37-3D, Fipronil, **mixture** with neem extract 123312-89-0D, Pymetrozine, **mixture** with neem extract 138261-41-3D, Imidacloprid, **mixture** with neem extract 148477-71-8D, Spirodiclofen, **mixture** with neem extract 149877-41-8D, Bifenazate, **mixture** with neem extract 153719-23-4D, Thiamethoxam, **mixture** with neem extract 160430-64-8D, Acetamiprid, **mixture** with neem extract 168316-95-8D, Spinosad, **mixture** with neem extract 210880-92-5D, Clothianidin, **mixture** with neem extract 283594-90-1D, **mixture** with neem extract 431898-75-8, Thiacloprid-NeemAzal **mixture**

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(synergistic insecticidal and acaricidal composition)

IT 11141-17-6D, Azadirachtin, **mixts.** containing

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(synergistic insecticidal and acaricidal compns.)

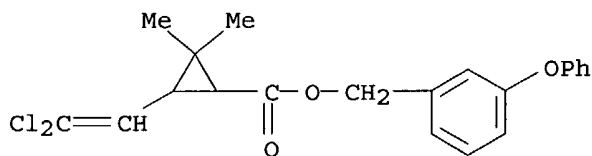
IT 52645-53-1D, Permethrin, **mixture** with neem extract

138261-41-3D, Imidacloprid, **mixture** with neem extract

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(synergistic insecticidal and acaricidal composition)

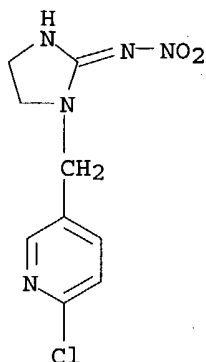
RN 52645-53-1 HCAPLUS

CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester (9CI) (CA INDEX NAME)



RN 138261-41-3 HCAPLUS

CN 2-Imidazolidinimine, 1-[(6-chloro-3-pyridinyl)methyl]-N-nitro- (9CI) (CA INDEX NAME)



L36 ANSWER 3 OF 7 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:428625 HCAPLUS

DN 137:1950

ED Entered STN: 07 Jun 2002

TI Compositions for control of parasitic insects and acarids comprising a combination of pyrethroids and chloronicotinyl compounds

IN Arther, Robert G.

PA Bayer Corporation, USA

SO PCT Int. Appl., 23 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM A01N053-00

ICS A01N053-00; A01N051-00

CC 5-4 (Agrochemical Bioregulators)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002043494	A2	20020606	WO 2001-US44084	20011126 <--
	WO 2002043494	A3	20020822		
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	CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,				
	GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,				
	LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,				
	PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA,				
	UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,				
	CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,				
	BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	US 2002103233	A1	20020801	US 2000-727117	20001130 <--
	AU 2002017851	A5	20020611	AU 2002-17851	20011126 <--
	BR 2001015777	A	20030916	BR 2001-15777	20011126 <--
	EP 1349456	A2	20031008	EP 2001-998203	20011126 <--
	R:				
	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
	IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
PRAI	US 2000-727117	A	20001130		
	WO 2001-US44084	W	20011126	<--	
AB	A composition for control of parasitic insects and acarids, comprising a combination of pyrethroids and chloronicotinyl compds.				
ST	parasiticide pyrethroid chloronicotinyl parasitic insect acarid; insecticide acaricide permethrin imidacloprid mixt parasite mammal				
IT	Mammalia (compsn. comprising combination of pyrethroids and chloronicotinyl compds. for control of parasitic insects and acarids on)				
IT	Acaricides				

## Insecticides

(compns. for control of parasitic insects and acarids comprising combination of pyrethroids and chloronicotinyl compds.)

## IT Parasiticides

(ecto-; comprising combination of pyrethroids and chloronicotinyl compds.)

## IT 133366-73-1, Permethrin-imidacloprid mixture

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(permethrin-imidacloprid mixture; compns.

for control of parasitic insects and acarids comprising)

## IT 133366-73-1, Permethrin-imidacloprid mixture

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(permethrin-imidacloprid mixture; compns.

for control of parasitic insects and acarids comprising)

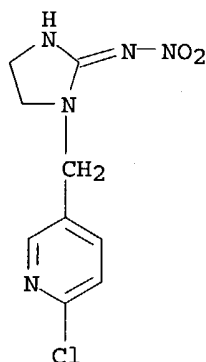
## RN 133366-73-1 HCAPLUS

CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester, mixt. with 1-[(6-chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine (9CI) (CA INDEX NAME)

CM 1

CRN 138261-41-3

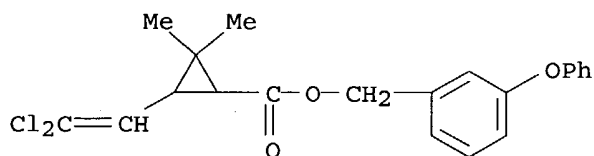
CMF C9 H10 Cl N5 O2



CM 2

CRN 52645-53-1

CMF C21 H20 Cl2 O3



ED Entered STN: 12 Apr 2002  
 TI Seed treatment with **combinations of insecticides**  
 IN Asrar, Jawed; Kohn, Frank C.  
 PA Monsanto Technology, LLC, USA  
 SO PCT Int. Appl., 62 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 IC ICM A01N053-00  
 ICS A01N053-00; A01N061-00  
 CC 5-4 (**Agrochemical Bioregulators**)  
 FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002028186	A2	20020411	WO 2001-US42444	20011002 <--
	WO 2002028186	A3	20030313		
	W:		AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
	RW:		GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG		
	US 2002115565	A1	20020822	US 2001-968175	20011001 <--
	US 6660690	B2	20031209		
	AU 2002013435	A5	20020415	AU 2002-13435	20011002 <--
	EP 1322166	A2	20030702	EP 2001-981818	20011002 <--
	R:		AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR		
	BR 2001014435	A	20040203	BR 2001-14435	20011002 <--
PRAI	US 2000-238485P	P	20001006 <--		
	US 2001-968175	A	20011001		
	WO 2001-US42444	W	20011002		

AB A method of preventing damage to the seed and/or shoots and foliage of a plant by a **pest** includes treating the seed from which the plant grows with a **composition** that includes a **combination** of at least one pyrethrin or synthetic pyrethroid and at least one other **insecticide** selected from oxadiazine derivative, a chloronicotiny, a nitroguanidine, a pyrrol, a pyrazone, a diacylhydrazine, a triazole, a biol./fermentation product, a phenylpyrazole, an organophosphate and a carbamate. It is preferred that when the other **insecticide** is an oxadiazine derivative, the pyrethroid is selected from the group consisting of taufluvallinate, flumethrin, trans-cyfluthrin, kadethrin, bioresmethrin, tetramethrin, phenothrin, empenethrin, cyphenothrin, prallethrin, imiprothrin, allethrin and bioallethrin. The treatment is applied to the unsown seed. In another embodiment, the seed is a transgenic seed having at least one heterologous gene encoding for the expression of a protein having **pesticidal** activity against a first **pest** and the **composition** has activity against at least one second **pest**

ST Seed treatment **insecticide combinations**  
 IT Pyrethrins  
 RL: **AGR (Agricultural use)**; **BIOL (Biological study)**; **USES (Uses)**  
 (pyrethroids, **mixts.** containing; seed treatment with **combinations of insecticides**)  
 IT Barley  
 Corn  
 Cotton  
**Insecticides**  
 Oat  
 Rape (plant)



Rice (*Oryza sativa*)  
 Rye  
 Seed  
 Sorghum  
 Soybean (*Glycine max*)  
 Sugar beet  
 Sugarcane  
 Sunflower  
 Tobacco  
 Tomato  
 Wheat

(seed treatment with combinations of insecticides)

IT 63-25-2D, Carbaryl, **mixts.** with pyrethroids 116-06-3D,  
 Aldicarb, **mixts.** with pyrethroids 121-75-5D, Malathion,  
**mixts.** with pyrethroids 333-41-5D, Diazinon, **mixts.**  
 with pyrethroids 584-79-2D, Allethrin, **mixts.** with oxadiazine  
 derivs. 1563-66-2D, Carbofuran, **mixts.** with pyrethroids  
 2921-88-2D, Chlorpyrifos, **mixts.** with pyrethroids 5598-13-0D,  
 Chlorpyrifos-methyl, **mixts.** with pyrethroids 7696-12-0D,  
 Tetramethrin, **mixts.** with oxadiazine derivs. 10453-86-8D,  
 Resmethrin, **mixts.** containing 22224-92-6D, Fenamiphos,  
**mixts.** with pyrethroids 23031-36-9D, Prallethrin, **mixts.**  
 with oxadiazine derivs. 23135-22-0D, Oxamyl, **mixts.** with  
 pyrethroids 26002-80-2D, Phenothrin, **mixts.** with oxadiazine  
 derivs. 28434-01-7D, Bioresmethrin, **mixts.** with oxadiazine  
 derivs. 30560-19-1D, Acephate, **mixts.** with pyrethroids  
 39515-40-7D, Cyphenothrin, **mixts.** with oxadiazine derivs.  
 39515-41-8D, Fenpropathrin, **mixts.** containing 51630-58-1D,  
 Fenvalerate, **mixts.** containing 52315-07-8D, Cypermethrin,  
**mixts.** containing 52645-53-1D, Permethrin,  
**mixts.** containing 52918-63-5D, Deltamethrin, **mixts.** containing  
 54406-48-3D, Empenthrin, **mixts.** with oxadiazine derivs.  
 58769-20-3D, Kadethrin, **mixts.** with oxadiazine derivs.  
 59669-26-0D, Thiodicarb, **mixts.** with pyrethroids 63935-38-6D,  
 Cycloprothrin, **mixts.** containing 66230-04-4D, EsFenvalerate,  
**mixts.** containing 66841-25-6D, Tralomethrin, **mixts.** containing  
 67375-30-8D, Alphacypermethrin, **mixts.** containing 68085-85-8D,  
 Cyhalothrin, **mixts.** containing 68359-37-5D, Cyfluthrin,  
**mixts.** containing 69770-45-2D, Flumethrin, **mixts.** containing  
 69770-45-2D, Flumethrin, **mixts.** with oxadiazine derivs.  
 70124-77-5D, Flucythrinate, **mixts.** containing 71697-59-1D,  
 Theta-Cypermethrin, **mixts.** containing 72963-72-5D, Imiprothrin,  
**mixts.** with oxadiazine derivs. 73989-17-0D, Avermectin,  
**mixts.** with pyrethroids 79538-32-2D, Tefluthrin, **mixts.**  
 containing 82657-04-3D, Bifenthrin, **mixts.** containing 91465-08-6D,  
**mixts.** containing 101007-06-1D, ACRINATHRIN, **mixts.** containing  
 102851-06-9D, Tau-fluvalinate, **mixts.** containing 102851-06-9D,  
 Taufluvalinate, **mixts.** with oxadiazine derivs. 112143-82-5D,  
 Triazamate, **mixts.** with pyrethroids 112226-61-6D,  
 Halofenozide, **mixts.** with pyrethroids 112410-23-8D,  
 Tebufenozide, **mixts.** with pyrethroids 118712-89-3D,  
 Transfluthrin, **mixts.** containing 119168-77-3D, Tebufenpyrad,  
**mixts.** with pyrethroids 120068-37-3D, Fipronil, **mixts.**  
 with pyrethroids 122453-73-0D, Chlorfenapyr, **mixts.** with  
 pyrethroids 138261-41-3D, Imidacloprid, **mixts.**  
 with pyrethroids 150824-47-8D, Nitenpyram, **mixts.** with  
 pyrethroids 153719-22-3D, **mixts.** with pyrethroids  
 153719-24-5D, **mixts.** with pyrethroids 153719-25-6D,  
**mixts.** with pyrethroids 153719-27-8D, **mixts.** with  
 pyrethroids 160430-64-8D, Acetamiprid, **mixts.** with pyrethroids  
 161050-58-4D, Methoxyfenozide, **mixts.** with pyrethroids  
 165252-70-0D, **mixts.** with pyrethroids 168316-95-8D, Spinosad,  
**mixts.** with pyrethroids 406681-57-0, Tefluthrin-acephate

**mixture**

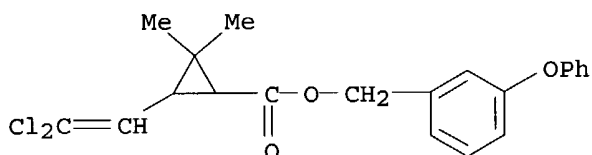
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(seed treatment with combinations of insecticides)

IT 52645-53-1D, Permethrin, mixts. containing  
138261-41-3D, Imidacloprid, mixts. with  
pyrethroids

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(seed treatment with combinations of insecticides)

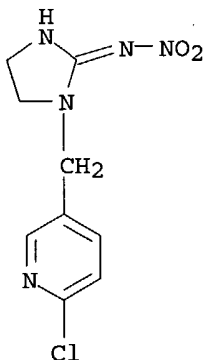
RN 52645-53-1 HCAPLUS

CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-,  
(3-phenoxyphenyl)methyl ester (9CI) (CA INDEX NAME)



RN 138261-41-3 HCAPLUS

CN 2-Imidazolidinimine, 1-[(6-chloro-3-pyridinyl)methyl]-N-nitro- (9CI) (CA  
INDEX NAME)



L36 ANSWER 5 OF 7 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1995:851686 HCAPLUS

DN 123:256703

ED Entered STN: 13 Oct 1995

TI Preparation of pyrazoline pesticide

IN Fuchs, Rainer; Erdelen, Christoph

PA Bayer A.-G., Germany

SO Ger. Offen., 10 pp.

CODEN: GWXXBX

DT Patent

LA German

IC ICM C07D231-16

ICS C07D213-57; C07D207-337; A01N047-38

ICI C07D403-04, C07D231-16, C07D231-06

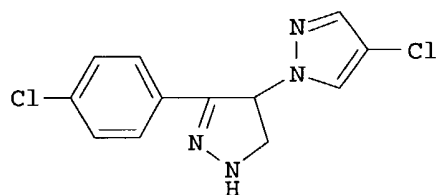
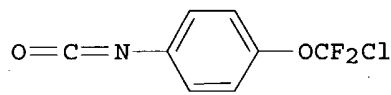
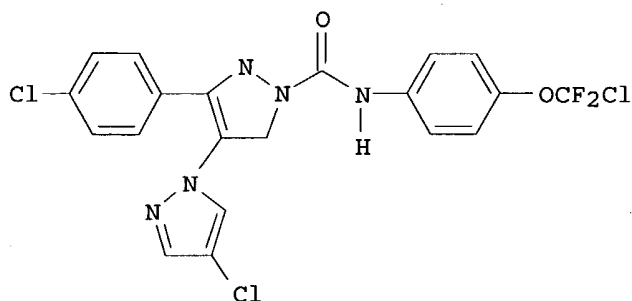
CC 28-8 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 5

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 4336307	A1	19950427	DE 1993-4336307	19931025
PRAI	DE 1993-4336307		19931025		

GI



- AB The title pesticide, I (m.p., 192°), is prepared by the addition of isocyanate, II, with pyrazoline III.
- ST pyrazoline prepn pesticide; insecticide prepn pyrazoline; pyrazole prepn pesticide
- IT Insecticides  
Pesticides  
(pyrazoline derivative)
- IT Bacillus thuringiensis  
Pyrethrins and Pyrethroids  
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(pyrazoline pesticide formulation containing)
- IT 41198-08-7, Profenofos 65691-00-1, Triarathene 86811-58-7, Fluazuron  
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(notpyrazoline pesticide formulation containing)
- IT 168897-93-6P 168897-95-8P  
RL: AGR (Agricultural use); IMF (Industrial manufacture); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of pyrazoline pesticide)
- IT 168897-94-7P  
RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of pyrazoline pesticide)
- IT 39065-93-5 136488-55-6  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(preparation of pyrazoline pesticide)
- IT 52-68-6, Trichlorfon 55-38-9, Fenthion 58-89-9 60-51-5, Dimethoate 62-73-7, Dichlorvos 63-25-2, Carbaryl 78-34-2, Dioxathion 86-50-0 97-17-6, Dichlofenthion 114-26-1, Propoxur 116-06-3, Aldicarb 119-12-0 121-75-5, Malathion 122-14-5, Fenitrothion 126-75-0,

Demeton s 141-66-2, Dicrotophos 297-97-2, Thionazin 298-00-0  
 298-02-2, Phorate 298-04-4, Disulfoton 300-76-5, Naled 301-12-2  
 311-45-5 333-41-5, Diazinon 470-90-6, Chlorfenvinphos 563-12-2,  
 Ethion 640-15-3 732-11-6, Phosmet 780-11-0, Terbam 786-19-6,  
 Carbophenothion 919-86-8, Demeton-S-methyl 944-22-9, Fonophos  
 950-37-8, Methidathion 1113-02-6, Omethoate 1129-41-5, Metolcarb  
 1563-66-2, Carbofuran 2032-65-7, Methiocarb 2274-67-1, Dimethylvinphos  
 2275-18-5, Prothoate 2275-23-2, Vamidothion 2310-17-0, Phosalone  
 2425-10-7, Xylcarb 2540-82-1, Formothion 2595-54-2, Mecarbam  
 2597-03-7, Phenthoate 2631-37-0, Promecarb 2631-40-5, Isoprocab  
 2636-26-2, Cyanophos 2642-71-9 2655-14-3, Xmc 2674-91-1, Oxydeprofos  
 2921-88-2, Chlorpyrifos 3383-96-8, Temephos 3689-24-5, Sulfotep  
 3761-41-9 3766-81-2, Fenobucarb 3811-49-2, Salithion 4824-78-6  
 5598-13-0 6923-22-4, Monocrotophos 7292-16-2, Propaphos 7786-34-7  
 8022-00-2 8065-36-9, Bufencarb 10265-92-6, Methamidophos 10453-56-2,  
 cis-Resmethrin 11141-17-6, Azadirachtin 12407-86-2, Trimethacarb  
 13071-79-9, Terbufos 13121-70-5, Cyhexatin 13171-21-6 13194-48-4,  
 Ethoprophos 13356-08-6, Fenbutatin oxide 13593-03-8, Quinalphos  
 14816-18-3, Phoxim 15263-53-3, Cartap 16752-77-5, Methomyl  
 17109-49-8, Edifenphos 17606-31-4, Bensultap 18854-01-8, Isoxathion  
 20425-39-2, Pyresmethrin 22224-92-6, Fenamiphos 22248-79-9,  
 Tetrachlorvinphos 22781-23-3, Bendiocarb 23103-98-2, Pirimicarb  
 23135-22-0, Oxamyl 23505-41-1 23526-02-5, Thuringiensin 23560-59-0,  
 Heptenophos 24017-47-8, Triazophos 24934-91-6, Chlormephos  
 25311-71-1, Isofenphos 26087-47-8, Iprobenfos 29232-93-7 29973-13-5,  
 Ethiofencarb 30560-19-1, Acephate 30864-28-9, Methacrifos  
 33089-61-1, Amitraz 34643-46-4, Prothiophos 34681-10-2, Butocarboxim  
 35367-38-5, Diflubenzuron 35400-43-2, Sulprofos 37273-91-9,  
 Metaldehyde 38260-54-7 39196-18-4, Thiofanox 39515-41-8,  
 Fenpropathrin 41083-11-8, Azocyclotin 42509-80-8, Isazophos  
 51487-69-5, Cloethocarb 51596-10-2, Milbemectin 51630-58-1,  
 Fenvalerate 52315-07-8, Cypermethrin 52645-53-1,  
**Permethrin** 52918-63-5, Deltamethrin 54593-83-8, Chlorethoxyfos  
 55285-14-8, Carbosulfan 59669-26-0, Thiodicarb 62850-32-2,  
 Fenothiocarb 63935-38-6, Cycloprothrin 64628-44-0, Triflumuron  
 65907-30-4, Furathiocarb 66215-27-8, Cyromazine 66230-04-4,  
 Esfenvalerate 66841-25-6, Tralomethrin 67375-30-8, Alphamethrin  
 68085-85-8, Cyhalothrin 68359-37-5, Cyfluthrin 69327-76-0, Buprofezin  
 69409-94-5, Fluvalinate 70124-77-5, Flucythrinate 70288-86-7,  
 Ivermectin 71422-67-8, Chlorfluazuron 71751-41-2, Abamectin  
 72490-01-8, Fenoxycarb 73989-17-0, Avermectin 74115-24-5, Clofentezine  
 78587-05-0, Hexythiazox 79538-32-2, Tefluthrin 79622-59-6, Fluazinam  
 80060-09-9, Diafenthiuron 80844-07-1, Etofenprox 82560-54-1,  
 Benfuracarb 82657-04-3, Bifenthrin 83121-18-0, Teflubenzuron  
 83130-01-2, Alanycarb 86479-06-3, Hexaflumuron 89784-60-1 91465-08-6  
 95465-99-9, Cadusafos 95737-68-1 96182-53-5, Tebupirimphos  
 96489-71-3, Pyridaben 98886-44-3, Fosthiazate 101007-06-1, Acrinathrin  
 101463-69-8, Flufenoxuron 103055-07-8, Lufenuron 105024-66-6,  
 Silafluofen 105779-78-0, Pyrimidifen 107713-58-6, Flufenprox  
 111872-58-3, Brofenprox 112410-23-8, Tebufenozide 113036-88-7,  
 Flucycloxuron 113507-06-5, Moxidectin 119168-77-3, Tebufenpyrad  
 119791-41-2, Emamectin 120068-37-3, Fipronil 120928-09-8, Fenazaquin  
 122453-73-0 123312-89-0, Pymetrozine 134098-61-6, Fenpyroximate  
 138261-41-3, **Imidacloprid** 150824-47-8, Nitenpyram  
 160430-64-8

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (pyrazoline pesticide formulation containing)

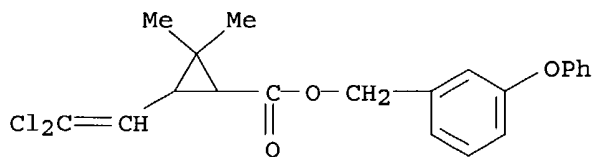
IT 52645-53-1, **Permethrin** 138261-41-3,  
**Imidacloprid**

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (pyrazoline pesticide formulation containing)

RN 52645-53-1 HCAPLUS

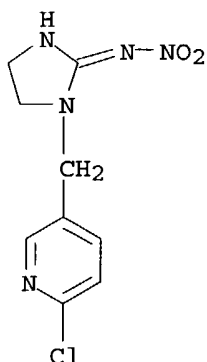
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-,

(3-phenoxyphenyl)methyl ester (9CI) (CA INDEX NAME)



RN 138261-41-3 HCAPLUS

CN 2-Imidazolidinimine, 1-[(6-chloro-3-pyridinyl)methyl]-N-nitro- (9CI) (CA INDEX NAME)



L36 ANSWER 6 OF 7 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1995:682581 HCAPLUS

DN 123:59251

ED Entered STN: 19 Jul 1995

TI Wood preservative, concentrates and preservation of wood

IN Heuer, Lutz; Kugler, Martin; Buschhaus, Hans-Ulrich; Schrage, Heinrich; Kunisch, Franz

PA Bayer A.-G., Germany

SO PCT Int. Appl., 28 pp.

CODEN: PIXXD2

DT Patent

LA German

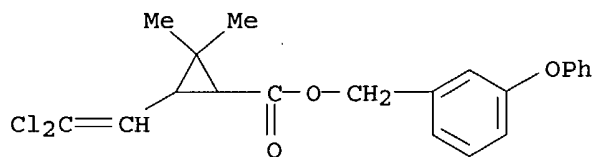
IC ICM B27K003-50

CC 43-2 (Cellulose, Lignin, Paper, and Other Wood Products)

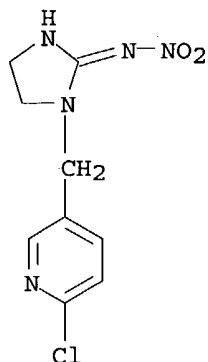
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 9500303	A1	19950105	WO 1994-EP1868	19940608
	W: AU, BB, BG, BR, BY, CA, CN, CZ, FI, HU, JP, KR, KZ, LK, NO, NZ, PL, RO, RU, SK, UA, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	DE 4320495	A1	19941222	DE 1993-4320495	19930621
	DE 4406819	A1	19950907	DE 1994-4406819	19940302
	AU 9471231	A1	19950117	AU 1994-71231	19940608
	AU 689480	B2	19980402		
	EP 705160	A1	19960410	EP 1994-920437	19940608
	R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, PT, SE				
	BR 9407120	A	19960903	BR 1994-7120	19940608
	JP 08509437	T2	19961008	JP 1994-502383	19940608
	NO 9505107	A	19951215	NO 1995-5107	19951215

US 5972971 A 19991026 US 1995-564249 19951215  
 FI 9506113 A 19951219 FI 1995-6113 19951219  
 PRAI DE 1993-4320495 A 19930621  
 DE 1994-4406819 A 19940302  
 WO 1994-EP1868 W 19940608  
 AB Title combination contains  $\alpha$ -butyl- $\alpha$ -(2,4-dichlorophenyl)-1H-1,2,4-triazol-1-ethanol (hexaconazole), and/or 5-[(4-chlorophenyl)methyl]-2,2-dimethyl-1-(1H-1,2,4-triazol-1-ylmethyl)cyclopentanol (metconazole) fungicides, and  $\geq 1$  supplementary synergistic insecticide. The addition of the synergistic insecticide to the azole fungicide does not impair the activity of the fungicide, the combinations have good stability, long term activity, a broad activity spectrum, and good penetrability in wood.  
 ST azole fungicide insecticide wood preservative; synergistic azole fungicide insecticide combination  
 IT Wood preservatives  
 (azole fungicides and synergistic insecticides)  
 IT 58-89-9, Lindane 2921-88-2, Chlorpyrifos 14816-18-3, Phoxim 52645-53-1, Permethrin 52918-63-5, Deltamethrin 60207-31-0, Azaconazole 60207-90-1, Propiconazole 68359-37-5, Cyfluthrin 76674-05-0 79983-71-4, Hexaconazole 86479-06-3, Hexaflumuron 94361-06-5 105024-66-6, Silafluofen 107534-96-3, Tebuconazole 120983-64-4 125116-23-6, Metconazole 138261-41-3, Imidacloprid  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (wood preservative containing)  
 IT 52645-53-1, Permethrin 138261-41-3, Imidacloprid  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (wood preservative containing)  
 RN 52645-53-1 HCAPLUS  
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester (9CI) (CA INDEX NAME)

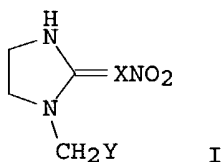


RN 138261-41-3 HCAPLUS  
 CN 2-Imidazolidinimine, 1-[(6-chloro-3-pyridinyl)methyl]-N-nitro- (9CI) (CA INDEX NAME)



L36 ANSWER 7 OF 7 HCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1991:201780 HCAPLUS  
 DN 114:201780  
 ED Entered STN: 31 May 1991  
 TI Nitromethylene- and nitroiminoimidazoline insecticides and their synergistic mixtures, for mothproofing.  
 IN Haas, Johannes; Matthaei, Hans Detlef; Krehan, Ingomar  
 PA Bayer A.-G., Germany  
 SO Eur. Pat. Appl., 12 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA German  
 IC ICM A01N043-50  
 ICS A01N043-54; A01N053-00; A01N041-06; A01N047-30  
 CC 5-4 (Agrochemical Bioregulators)  
 Section cross-reference(s): 40  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 387663	A1	19900919	EP 1990-104251	19900306
	EP 387663	B1	19930901		
	R: BE, DE, GB				
	DE 3908814	A1	19900920	DE 1989-3908814	19890317
	DE 4000972	A1	19910718	DE 1990-4000972	19900116
	JP 02273601	A2	19901108	JP 1990-60131	19900313
	AU 9051418	A1	19900920	AU 1990-51418	19900316
	AU 633883	B2	19930211		
	ZA 9002030	A	19901228	ZA 1990-2030	19900316
	CN 1045505	A	19900926	CN 1990-101547	19900317
PRAI	DE 1989-3908814		19890317		
	DE 1990-4000972		19900116		
OS	MARPAT 114:201780				
GI					



AB An insecticide contains I (R = H, Me; X = CH or N; Y = halo- or Cl-4 alkyl-substituted pyridinyl, pyrazinyl, or pyrimidinyl). Synergistic mixture

contain I and another insecticide selected from phenoxybenzyl cyclopropanecarboxylate derivs., 5-phenylcarbamoylebarbituric acid derivs., chloromethylsulfonamidodiphenyl ether derivs., and di-Ph urea derivs. The insecticides are useful against textile-damaging insects, such as moth (*Tineola bisselliella*, *Tinea pellionella*, etc.) and beetles (*Attagenus*, *Anthrenus*), in an aqueous medium.

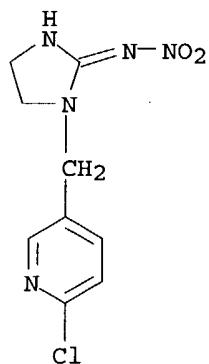
ST nitromethyleniminoimidazoline nitroiminoimidazoline insecticide textile;  
 IT mothproofing nitroiminoimidazoline cyclopropanecarboxylate deriv synergism  
 IT Pyrethrins and Pyrethroids  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study);  
 USES (Uses)  
 (synergistic insecticides containing nitromethylene- or nitroiminoimidazoline and)  
 IT Mothproofing  
 (agents, nitromethylene- or nitroiminoimidazoline derivs.)  
 IT Insecticides  
 (synergistic, nitromethylene- or nitroiminoimidazoline-containing, for textiles)  
 IT 105827-81-4 105899-48-7 133093-07-9 133116-04-8 138261-41-3  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study);  
 USES (Uses)  
 (insecticide, for textiles)  
 IT 133093-08-0 133116-05-9 133366-73-1  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study);  
 USES (Uses)  
 (synergistic insecticide, for textiles)  
 IT 26763-63-3D, Diphenylurea, derivs. 97534-21-9D, derivs. 133517-84-7D, derivs.  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study);  
 USES (Uses)  
 (synergistic insecticides containing nitromethylene- or nitroiminoimidazoline and)  
 IT 133366-73-1  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study);  
 USES (Uses)  
 (synergistic insecticide, for textiles)  
 RN 133366-73-1 HCAPLUS  
 CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester, mixt. with 1-[(6-chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine (9CI) (CA INDEX NAME)

CM 1

CRN 138261-41-3

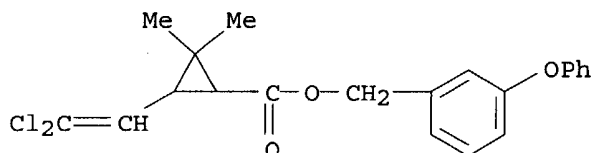
CMF C9 H10 Cl N5 O2





CM 2

CRN 52645-53-1  
CMF C21 H20 Cl2 O3



=&gt; fil reg

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DICTIONARY FILE UPDATES: 21 APR 2004 HIGHEST RN 676437-01-7

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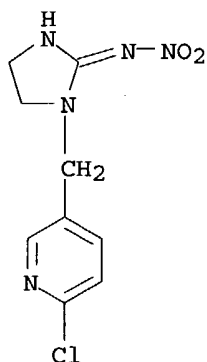
Experimental and calculated property data are now available. For more  
information enter HELP PROP at an arrow prompt in the file or refer  
to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=&gt; d ide can l1

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 138261-41-3 REGISTRY  
CN 2-Imidazolidinimine, 1-[(6-chloro-3-pyridinyl)methyl]-N-nitro- (9CI) (CA  
INDEX NAME)

## OTHER NAMES:

CN 1-[(6-Chloro-3-pyridinyl)methyl]-4,5-dihydro-N-nitro-1H-imidazol-2-amine  
 CN 1-[(6-Chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine  
 CN Admire  
 CN Advantage Flea Adulticide  
 CN BAY-NTN 33893  
 CN Confidor  
 CN Confidor 200SL  
 CN Confidor SL  
 CN CP 1  
 CN Gaucho  
 CN Hachikusan  
 CN Imidacloprid  
 CN Merit  
 CN Merit (insecticide)  
 CN Meritgreen  
 CN NTN 33893  
 CN NTN 33893-240FS  
 CN Premise  
 CN Provado  
 AR 105827-78-9  
 MF C9 H10 Cl N5 O2  
 CI COM  
 SR CAS Client Services  
 LC STN Files: AGRICOLA, AQUIRE, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA,  
 CAPLUS, CASREACT, CEN, CHEMCATS, CHEMLIST, CIN, EMBASE, MEDLINE,  
 NIOSHTIC, PROMT, RTECS\*, TOXCENTER, ULIDAT, USPAT2, USPATFULL, VETU  
 (\*File contains numerically searchable property data)



## \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1318 REFERENCES IN FILE CA (1907 TO DATE)  
 66 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 1325 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:266144  
 REFERENCE 2: 140:266117  
 REFERENCE 3: 140:266116  
 REFERENCE 4: 140:266114  
 REFERENCE 5: 140:237497  
 REFERENCE 6: 140:230935

REFERENCE 7: 140:230929

REFERENCE 8: 140:230928

REFERENCE 9: 140:230924

REFERENCE 10: 140:216326

=> d ide can l2

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN

RN 52645-53-1 REGISTRY

CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-,  
(3-phenoxyphenyl)methyl ester (9CI) (CA INDEX NAME)

OTHER NAMES:

CN (3-Phenoxyphenyl)methyl 2,2-dimethyl-3-(2,2-dichlorovinyl)cyclopropanecarboxylate

CN 3-Phenoxybenzyl 2,2-dimethyl-3-(2,2-dichlorovinyl)cyclopropanecarboxylate

CN 3-Phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

CN Acticin

CN Adion

CN Ambush

CN Anomethrin N

CN Antiborer 3768

CN Bematin 987

CN BioKill

CN Chinetrin

CN Cooper

CN Coopex

CN Corsair

CN Damminix

CN Diffusil H

CN Dagnet

CN Dagnet FT

CN Dragon

CN Ecsumin

CN Ectiban

CN Efmethrin

CN Elimite

CN Eulan SPA

CN Exmin

CN FMC 33297

CN FMC 41655

CN ICI-PP 557

CN Imperator

CN Insorbcid MP

CN Ipitox

CN JF 7065

CN Kaleait

CN Kavil

CN Kestrel

CN Kestrel (pesticide)

CN Kudos

CN Lyclear

CN m-Methoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

CN m-Phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

CN Mitin BC

CN MP 79

CN MP 79 (ester)

CN NIA 33297

CN Nix

CN NRDC 143  
 CN Perigen  
 CN Perigen W  
 CN Permanone  
 CN Permanone 80  
 CN **Permethrin**

ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for  
 DISPLAY

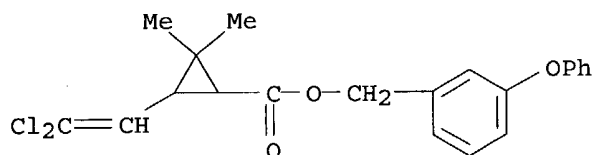
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 CI COM

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOBUSINESS,  
 BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN,  
 CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM\*, DIOGENES, DRUGU,  
 EMBASE, HSDB\*, IFICDB, IFIPAT, IFIUDB, IMSCOSEARCH, IPA, MEDLINE, MRCK\*,  
 MSDS-OHS, NIOSHTIC, PIRA, PROMT, RTECS\*, SPECINFO, TOXCENTER, ULIDAT,  
 USAN, USPAT2, USPATFULL, VETU

(\*File contains numerically searchable property data)

Other Sources: EINECS\*\*, WHO

(\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

4606 REFERENCES IN FILE CA (1907 TO DATE)

65 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

4613 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:266144  
 REFERENCE 2: 140:266108  
 REFERENCE 3: 140:258449  
 REFERENCE 4: 140:248719  
 REFERENCE 5: 140:248716  
 REFERENCE 6: 140:248708  
 REFERENCE 7: 140:240115  
 REFERENCE 8: 140:234548  
 REFERENCE 9: 140:230926  
 REFERENCE 10: 140:230680

=> d ide can l5

L5 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 133366-73-1 REGISTRY

CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-,  
(3-phenoxyphenyl)methyl ester, mixt. with 1-[(6-chloro-3-pyridinyl)methyl]-  
N-nitro-2-imidazolidinimine (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2-Imidazolidinimine, 1-[(6-chloro-3-pyridinyl)methyl]-N-nitro-, mixt.  
contg. (9CI)

OTHER NAMES:

CN Permethrin-imidacloprid mixt.

MF C21 H20 Cl2 O3 . C9 H10 Cl N5 O2

CI MXS

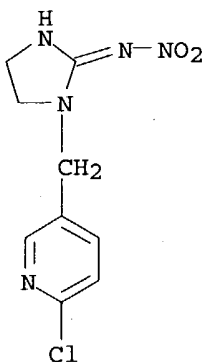
SR CA

LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 138261-41-3

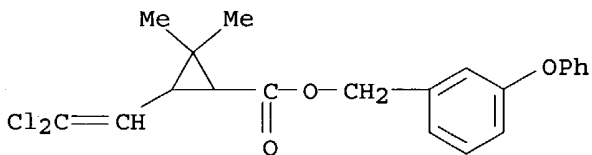
CMF C9 H10 Cl N5 O2



CM 2

CRN 52645-53-1

CMF C21 H20 Cl2 O3



3 REFERENCES IN FILE CA (1907 TO DATE)

3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:243440

REFERENCE 2: 137:1950

REFERENCE 3: 114:201780

=> => fil wpix

FILE 'WPIX' ENTERED AT 16:03:59 ON 22 APR 2004

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FILE LAST UPDATED: 21 APR 2004 <20040421/UP>  
 MOST RECENT DERWENT UPDATE: 200426 <200426/DW>  
 DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE

>>> FOR A COPY OF THE DERWENT WORLD PATENTS INDEX STN USER GUIDE,  
 PLEASE VISIT:  
[http://www.stn-international.de/training\\_center/patents/stn\\_guide.pdf](http://www.stn-international.de/training_center/patents/stn_guide.pdf) <<<

>>> FOR DETAILS OF THE PATENTS COVERED IN CURRENT UPDATES, SEE  
<http://thomsonderwent.com/coverage/latestupdates/> <<<

>>> FOR INFORMATION ON ALL DERWENT WORLD PATENTS INDEX USER  
 GUIDES, PLEASE VISIT:  
<http://thomsonderwent.com/support/userguides/> <<<

>>> ADDITIONAL POLYMER INDEXING CODES WILL BE IMPLEMENTED FROM  
 DERWENT UPDATE 200403.  
 THE TIME RANGE CODE WILL ALSO CHANGE FROM 018 TO 2004.  
 SDIS USING THE TIME RANGE CODE WILL NEED TO BE UPDATED.  
 FOR FURTHER DETAILS: <http://thomsonderwent.com/chem/polymers/> <<<

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 DOCUMENTATION NOW AVAILABLE IN DERWENT WORLD PATENTS INDEX  
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 FOR FURTHER DETAILS: <http://www.thomsonderwent.com/dwpifv> <<<

=> d 147 all abeq tech abex tot

L47 ANSWER 1 OF 4 WPIX COPYRIGHT 2004 THOMSON DERWENT on STN  
 AN 2003-176748 [18] WPIX  
 DNC C2003-046635  
 TI Pesticidal composition, useful for controlling fleas and ticks on animals,  
 contains **permethrin** and **imidacloprid**, in  
 N-methylpyrrolidone.  
 DC B03 C02  
 IN DORN, H; GILGES, M; HANSEN, O; SIRINYAN, K  
 PA (FARB) BAYER AG; (FARB) BAYER HEALTHCARE AG  
 CYC 101  
 PI DE 10117676 A1 20021010 (200318)\* 9p A01N053-06  
 WO 2002087338 A1 20021107 (200318) DE A01N051-00  
 RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ  
 NL OA PT SD SE SL SZ TR TZ UG ZM ZW  
 W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK  
 DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR  
 KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT  
 RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM  
 ZW  
 NO 2003004512 A 20031201 (200407) A01N000-00  
 EP 1379138 A1 20040114 (200410) DE A01N051-00  
 R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT  
 RO SE SI TR  
 SK 2003001235 A3 20040203 (200413) A01N051-00  
 ADT DE 10117676 A1 DE 2001-10117676 20010409; WO 2002087338 A1 WO 2002-EP3619  
 20020402; NO 2003004512 A WO 2002-EP3619 20020402, NO 2003-4512 20031008;  
 EP 1379138 A1 EP 2002-766612 20020402, WO 2002-EP3619 20020402; SK  
 2003001235 A3 WO 2002-EP3619 20020402, SK 2003-1235 20020402  
 FDT EP 1379138 A1 Based on WO 2002087338; SK 2003001235 A3 Based on WO  
 2002087338  
 PRAI DE 2001-10117676 20010409  
 IC ICM A01N000-00; A01N051-00; A01N053-06  
 ICS A01N043-50

ICI A01N053:08; A01N051-00; A01N025:02

AB DE 10117676 A UPAB: 20030317

NOVELTY - Composition (A) containing, by weight:

- (a) 35-60% **permethrin** (I);
- (b) 2.5-12.5% **imidacloprid** (1-((6-chloro-3-pyridinyl)methyl)-N-nitroso-2-imidazolidine) or its analog (II);
- (c) 27.5-62.5% N-methylpyrrolidone (NMP);
- (d) 0-5% water;
- (e) 0-0.5% phenolic antioxidant (III); and
- (f) 0-0.5% organic acid (IV).

ACTIVITY - Insecticide; Acaricide.

A 'spot-on' solution comprised:

- (a) **permethrin** (40% cis; 60% trans) (45 g);
- (b) **imidacloprid** (1-((6-chloro-3-pyridinyl)methyl)-N-nitroso-2-imidazolidine) (10 g);
- (c) N-methylpyrrolidone (44.8 g);
- (d) citric acid (0.1 g); and
- (e) butylhydroxytoluene (0.1 g).

This solution was very effective against fleas (*Ctenocephalides felis*) and ticks (*Rhipicephalus sanguineus*) on dogs, when applied at 1 ml/kg.

MECHANISM OF ACTION - (II) is a Nicotinergeric Acetylcholine Receptors Inhibitor in insects.

USE - (A) are used to treat parasites on animals, especially ticks and fleas on cats and dogs.

ADVANTAGE - Composition (A):

- (i) is well tolerated by the skin;
- (ii) is non-toxic;
- (iii) is required only in very small amounts;
- (iv) provides protection for at least 3-4 weeks, and is storage stable for at least 3 years. Unlike most known 'pour-on' treatments it is effective against both fleas and ticks.

Dwg.0/0

FS CPI

FA AB; DCN

MC CPI: B04-A07C; B07-D03; B07-D04C; B07-D09; B10-A07; B10-A13D; B10-E02; B10-G02; B14-B04A; B14-B04B9; **B14-S09**; C04-A07C; C07-D03; C07-D04C; C07-D09; C10-A07; C10-A13D; C10-E02; C10-G02; C14-B04A; C14-B04B9; **C14-S09**

TECH UPTX: 20030317

TECHNOLOGY FOCUS - PHARMACEUTICALS - Preferred Composition: This comprises 47.5-55% (I); 7.5-10% (II); and 0.05-0.15% each of (III) and (IV). It may also include other active agents or synergists, e.g. pyroproxifen, methopren or triflumuron, also usual surfactants, spreading agents etc. Preferred Materials: **Imidacloprid** analogs have formula

R-N(-A)-C(-Z)=X-E

R = hydrogen or optionally substituted acyl, alkyl, (hetero)aryl, or (hetero)aralkyl;

A = hydrogen, acyl, alkyl, aryl or, with Z; a divalent group;

E = electron-withdrawing group;

X = -CH= or =N-, and -CH=, instead of a hydrogen atom, can be linked to Z;

Z = alkyl, O, SR or N(R)<sub>2</sub>, or forms a divalent group with A or X.

Preferred analogs include thiacloprid and acetamiprid.

TECHNOLOGY FOCUS - ORGANIC CHEMISTRY - Preferred Materials: (III) is particularly butylhydroxy-anisole or -toluene, or tocopherol. The most preferred (IV) is citric acid.

ABEX UPTX: 20030317

ADMINISTRATION - (A) is applied topically to the skin, at 0.075-0.25, preferably 0.1-0.15, ml/kg.

EXAMPLE - A 'spot-on' solution comprised:

- (a) permethrin (40% cis; 60% trans) (45 g);
- (b) imidacloprid (1-((6-chloro-3-pyridinyl)methyl)-N-nitroso-2-imidazolidine) (10 g);
- (c) N-methylpyrrolidone (44.8 g);
- (d) citric acid (0.1 g); and
- (e) butylhydroxytoluene (0.1 g).

L47 ANSWER 2 OF 4 WPIX COPYRIGHT 2004 THOMSON DERWENT on STN  
 AN 2002-490254 [52] WPIX  
 DNC C2002-139247  
 TI Composition useful for controlling parasitic insects and acarids comprises a combination of pyrethroid and nicotinyl compounds.  
 DC B03 B05 C02 C03  
 IN ARTHUR, R G  
 PA (FARB) BAYER CORP; (FARB) BAYER HEALTHCARE LLC; (ARTH-I) ARTHUR R G  
 CYC 100  
 PI WO 2002043494 A2 20020606 (200252)\* EN 23p A01N053-00  
 RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ  
 NL OA PT SD SE SL SZ TR TZ UG ZM ZW  
 W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK  
 DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR  
 KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT  
 RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZM ZW  
 US 2002103233 A1 20020801 (200253) A01N043-40  
 AU 2002017851 A 20020611 (200264) A01N053-00  
 BR 2001015777 A 20030916 (200369) A01N053-00  
 EP 1349456 A2 20031008 (200370) EN A01N053-00  
 R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT  
 RO SE SI TR  
 KR 2003059254 A 20030707 (200377) A01N053-00  
 SK 2003000626 A3 20031104 (200377) A01N053-00  
 CZ 2003001400 A3 20031112 (200379) A01N053-00  
 ADT WO 2002043494 A2 WO 2001-US44084 20011126; US 2002103233 A1 US 2000-727117  
 20001130; AU 2002017851 A AU 2002-17851 20011126; BR 2001015777 A BR  
 2001-15777 20011126, WO 2001-US44084 20011126; EP 1349456 A2 EP  
 2001-998203 20011126, WO 2001-US44084 20011126; KR 2003059254 A KR  
 2003-706585 20030515; SK 2003000626 A3 WO 2001-US44084 20011126, SK  
 2003-626 20011126; CZ 2003001400 A3 WO 2001-US44084 20011126, CZ 2003-1400  
 20011126  
 FDT AU 2002017851 A Based on WO 2002043494; BR 2001015777 A Based on WO  
 2002043494; EP 1349456 A2 Based on WO 2002043494; SK 2003000626 A3 Based  
 on WO 2002043494; CZ 2003001400 A3 Based on WO 2002043494  
 PRAI US 2000-727117 20001130  
 IC ICM A01N043-40; A01N053-00  
 ICS A01N031-14; A01N051-00  
 ICI A01N051:00, A01N053:00; A01N051:00; A01N053-00; A01N053-00; A01N051:00  
 AB WO 200243494 A UPAB: 20021031  
 NOVELTY - A composition comprises a combination of a pyrethroid and a  
 nicotinyl compound.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for:

- (1) formulation for dermal control of parasitic insects and acarids comprising the combination, a solvent and optionally an auxiliary;
- (2) preparing the composition involving mixing the pyrethroid and nicotinyl compound; and
- (3) preparing the formulation involving mixing the combination, solvent and optionally the auxiliary.

ACTIVITY - Anti-parasitic; Insecticide; Acaricide.

In a test, thirty six dogs were divided into six groups of 6 dogs per group. Each dog received a single topically-applied treatment of permethrin (45 w/w.%) and imidacloprid (9.1 w/w.%) individually, and a combination of permethrin (45 w/w.%) + imidacloprid (9.1 w/w.%). The dogs were infested with 100 unfed adult ticks (50 Dermacentor variabilis) on day-3. Live ticks were counted



on day-1. Each dog was examined visually for 28 days following treatment. The efficacy (%) of treatment by **permethrin/imidacloprid** /**permethrin + imidacloprid** against *Dermacentor variabilis* was 36.2/-12/64.2 (after first day), 53.9/16.9/81.9 (after second day), 75.3/30.9/96.4 (after third day), 95.2/32.5/97 (after seventh day), 96.1/35.3/98.4 (after eighth day), 97.1/39.4/98.6 (after ninth day), 91.5/50.3/97.4 (after fourteenth day), 92.9/66.4/99.2 (after fifteenth day), 96.8/68.4/99.2 (after sixteenth day), 90.8/50.2/87.7 (after twenty one days), 85.1/40.1/94.5 (after twenty two days), 89.3/50.2/97.7 (after twenty three days) and 79.3/38.8/91.8 (after twenty eight days). From the results obtained it was concluded that the combination produced a faster kill of ticks than either **permethrin** or **imidacloprid** alone. The combination provided 82 - 86% killing of ticks by day 2 post application and 100% killing by day 3 post application. **Permethrin** alone required 7 days to approach a 100% killing of ticks. The length of time that significant tick control occurred with the combination of **permethrin** and **imidacloprid** was significantly longer than that of **permethrin** or **imidacloprid** alone. The data indicated that the combination of **permethrin** and **imidacloprid** controlled 85 - 92% of ticks by 28 days post application.

MECHANISM OF ACTION - None given.

USE - For treating a mammal or premise infected with parasitic insects and acarids (claimed) including fleas, mites and ticks e.g. *Demacentor variabilis* and *Rhipiciphalus sanguineus*.

ADVANTAGE - The combination provides enhanced kill activity against acarids and thus provides excellent control. In the use of the combination against fleas, **imidacloprid** activity has not been negatively affected by the **permethrin**. The combination maintains continued excellent activity against fleas.

Dwg.0/0

FS CPI

FA AB; DCN

MC CPI: B04-A07C; B07-D04C; B07-D09; B14-B02; B14-B04A; B14-B04B9; B14-S09; C04-A07C; C07-D04C; C07-D09; C14-B02; C14-B04A; C14-B04B9; C14-S09

TECH UPTX: 20020815

TECHNOLOGY FOCUS - ORGANIC CHEMISTRY - Preferred Composition: The composition comprises (wt.%) pyrethroid (0.1 - 60) and nicotinyln compound (0.001 - 25).

ABEX UPTX: 20020815

SPECIFIC COMPOUNDS - The use of 1 compound as the pyrethroid, is specifically claimed, i.e. **Permethrin**.

The use of 1 compound as the nicotinyln compound, is specifically claimed, i.e. **imidacloprid**.

ADMINISTRATION - The compositions are administered dermally (claimed).

L47 ANSWER 3 OF 4 WPIX COPYRIGHT 2004 THOMSON DERWENT on STN

AN 2002-489747 [52] WPIX

CR 2002-471333 [50]; 2002-489800 [52]

DNC C2002-138994

TI Composition useful for treating unsown seeds for preventing damage by pests, comprising pyrethrin or synthetic pyrethroid, and insecticide.

DC C03 C06 D16

IN ASRAR, J; KOHN, F C

PA (MONS) MONSANTO TECHNOLOGY LLC; (MONS) MONSANTO TECHNOLOGY LLP

CYC 98

PI WO 2002028186 A2 20020411 (200252)\* EN 62p A01N053-00

RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR

KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PH PL PT RO  
 RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

AU 2002013435 A 20020415 (200254) A01N053-00  
 US 2002115565 A1 20020822 (200258) A01N025-26  
 EP 1322166 A2 20030702 (200344) EN A01N053-00  
 R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT  
 RO SE SI TR

US 6660690 B2 20031209 (200381) A01N025-26  
 BR 2001014435 A 20040203 (200413) A01N053-00  
 MX 2003003074 A1 20030701 (200423) A01N053-00

ADT WO 2002028186 A2 WO 2001-US42444 20011002; AU 2002013435 A AU 2002-13435  
 20011002; US 2002115565 A1 Provisional US 2000-238485P 20001006, US  
 2001-968175 20011001; EP 1322166 A2 EP 2001-981818 20011002, WO  
 2001-US42444 20011002; US 6660690 B2 Provisional US 2000-238485P 20001006,  
 US 2001-968175 20011001; BR 2001014435 A BR 2001-14435 20011002, WO  
 2001-US42444 20011002; MX 2003003074 A1 WO 2001-US42444 20011002, MX  
 2003-3074 20030407

FDT AU 2002013435 A Based on WO 2002028186; EP 1322166 A2 Based on WO  
 2002028186; BR 2001014435 A Based on WO 2002028186; MX 2003003074 A1 Based  
 on WO 2002028186

PRAI US 2001-968175 20011001; US 2000-238485P 20001006

IC ICM A01N025-26; A01N053-00  
 ICS A01N037-34; A01N043-40; A01N043-46; A01N043-647; A01N051-00;  
 A01N057-00; A01N061-00

ICI A01N053:00; A01N061:00; A01N061:00; A01N053-00

AB WO 200228186 A UPAB: 20040405

NOVELTY - A composition comprises a combination (I) comprising pyrethrin  
 or synthetic pyrethroid and an insecticide (II) selected from an  
 oxadiazine derivative, nitroguanidine or a component (C1) selected from  
 chloronicotinyl, pyrrol, pyrazone, diacylhydrazine, triazole,  
 biological/fermentation product, phenyl pyrazole, organophosphate or  
 carbamate.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the  
 following:

(1) a seed that is protected against multiple pests comprising a seed  
 having at least one heterologous gene encoding for the expression of a  
 protein that is active against a first pest and in addition, having (I)  
 adhered to it.

ACTIVITY - Insecticide; Pesticide.

MECHANISM OF ACTION - None given in the source material.

USE - The composition is useful for coating a seed for preventing  
 damage by a pest to an unsown seed and shoots and foliage of a plant grown  
 from the seed, e.g. corn, soyabean, cotton, rice, sorghum, sugar beet,  
 wheat, barley, rye, sunflower, tomato, sugarcane, tobacco, rape and oats,  
 transgenic seed including transgenic corn seed containing a heterologous  
 Bacillus thuringiensis (gene) which encodes for the production of a  
 modified Cry3Bb delta -endotoxin (all claimed). It is also useful for  
 protecting the seeds against the pests such as Lepidoptera, Coleoptera,  
 Orthoptera, Isoptera, Psocoptera, Anoplura, Mallophaga, Thysanoptera,  
 Heteroptera, Homoptera, Hymenoptera, Diptera, Siphonaptera and Thysanura.

ADVANTAGE - The composition provides protection to the seed, shoots  
 and foliage of the plant against damage by the multiple pests, and at  
 least one second pest. The seeds are treated with pyrethroid at the same  
 or different time than it is treated with the other insecticide. The  
 combination provides unexpectedly superior protection, which includes a  
 level of protection to the seed and plant that is superior to the level of  
 protection of the prior art. The combination is also more economical to  
 use and less phytotoxic as compared to the insecticides used separately.

Dwg.0/0

FS CPI  
 FA AB; DCN  
 MC CPI: C02-A; C02-S; C04-A07C; C04-A08C2; C04-A09F; C05-B01K; C05-B01L;  
 C05-B01M; C05-B01P; C06-A01; C07-H; C10-A12C; C10-A15; C10-A17;

C10-A19; C14-B01; C14-B04B; **C14-S09**

TECH

UPTX: 20020815

TECHNOLOGY FOCUS - AGRICULTURE - Preferred Components: At least one of the pyrethroid and the other insecticide is a systemic insecticide.

(II) is an oxadiazine derivative or a combination of nitroguanidine and (C1).

TECHNOLOGY FOCUS - BIOTECHNOLOGY - Preferred Components: At least one heterologous gene encodes for the expression of a protein that is active against corn root worm or european corn borer. The gene is originally derived from a microorganism selected from bacillus, rhizobium, pseudomonas, serratia, trichoderma, glomus, gliocladium or mycorrhizal fungus (preferably Bacillus thuringiensis).

ABEX

UPTX: 20020815

SPECIFIC COMPOUNDS - The synthetic pyrethroid is e.g. (S)-cyano(3-phenoxyphenyl)methyl-4-chloro alpha(1-methylethyl)benzene acetate. The oxadiazine derivative is e.g. 5-(2-chloropyrid-5-yl-methyl)-3-methyl-4-nitroiminoperhydro-1,3,5-oxadiazine.

The chloronicotinyl is **imidacloprid**, acetamiprid or nitenpyram. The nitroguanidine, pyrrol, pyrazone and triazole are nidinotefuran, chlorfenapyr, tebufenpyrad and triazamate respectively. The diacylhydrazine is tebufenozide, methoxyfenozide or halofenozide. The phenyl pyrazone is fiprinol. The organophosphate is acephate, fenamiphos, diazinon, chlorpyrifos, chlorpyrifon-methyl or malathion. The carbamate is carbaryl, aldicarb, carbofuran, thiodicarb or oxamyl.

EXAMPLE - A seed treatment formulation comprising (g/100 kg) RAZE (RTM; tefluthrin) (300) and ORTHENE (RTM, acephate (N-(methoxy(methylthio)phosphinoyl)acetamide) (200) was prepared. The formulations were applied for one minute at room temperature to corn plants to provide protection against black cutworm damage. The stand reduction (% at 10 days) for the treated/untreated plants = 7.1/100, and percent of control = 7.1/not given. The treatment formulation therefore showed a synergistic effect against damage of the plant by black cutworm for all levels of tefluthrin when levels of acephate were 200 g/100 kg of seed.

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AN 2002-480983 [52] WPIX

DNC C2002-136914

TI Insecticidal and acaricidal composition comprises neem tree seed extracts, insecticides e.g. cypermethrin and acaricides e.g. abamectin.

DC C03

IN BARON, G; KILIAN, M; ROSENFELDT, F

PA (FARB) BAYER AG; (FARB) BAYER CROPS SCIENCE AG; (BARO-I) BARON G; (KILI-I) KILIAN M; (ROSE-I) ROSENFELDT F

CYC 100

PI DE 10059606 A1 20020606 (200252)\* 8p A01N065-00

WO 2002043496 A2 20020606 (200252) DE A01N065-00

RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ  
NL OA PT SD SE SL SZ TR TZ UG ZM ZW

W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK  
DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR  
KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT  
RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZM ZW

AU 2002018304 A 20020611 (200264) A01N065-00

EP 1339288 A2 20030903 (200365) DE A01N065-00

R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT  
RO SE SI TR

US 2004052878 A1 20040318 (200421) A01N065-00

ADT DE 10059606 A1 DE 2000-10059606 20001201; WO 2002043496 A2 WO 2001-EP13340  
20011119; AU 2002018304 A AU 2002-18304 20011119; EP 1339288 A2 EP  
2001-998148 20011119, WO 2001-EP13340 20011119; US 2004052878 A1 WO

2001-EP13340 20011119, US 2003-432979 20031003  
 FDT AU 2002018304 A Based on WO 2002043496; EP 1339288 A2 Based on WO 2002043496  
 PRAI DE 2000-10059606 20001201  
 IC ICM A01N065-00  
 ICS A01N037-34; A01N053-00; A01N057-00  
 AB DE 10059606 A UPAB: 20021031  
 NOVELTY - An insecticidal and acaricidal composition contains extracts from neem tree seeds (A) and a selected pyrethroid (B), carbamate (C), phosphoric acid derivative (D), nicotinoyl or neonicotinyl derivative (E) and insecticide or acaricide compound (F).  
 DETAILED DESCRIPTION - Insecticidal and acaricidal composition comprises:  
 (1) extracts from neem tree seeds (A);  
 (2) a pyrethroid (B) selected from cypermethrin, deltamethrin, **permethrin**, natural pyrethrum, fenpropathrin, cyfluthrin or beta-cyfluthrin;  
 (3) a carbamate (C) selected from butocarboxim, pirimicarb, propoxur or methiocarb;  
 (4) a phosphoric acid derivative (D) selected from isazophos or dimethoate;  
 (5) a nicotinoyl or neonicotinyl derivative (E) selected from **imidacloprid**, thiacloprid, thiamethoxam, acetamiprid or clothianidin;  
 (6) an insecticide or acaricide compound selected from abamectin, diflubenzuron, buprofezin, triflumuron, diafenthiuron, fipronil, spinosad, pymetrozine, cyromazine, dicyclanil, bifentazate, hexathiazox, tebufenpyrad, pyridaben, 3-(2,4-dichlorophenyl)-4-(1,1-dimethyl-propyl-carbonyloxy)-5-spiro-cyclohexyl-3-dihydrofuranone-2 or 3-(2,4,6-trimethylphenyl)-4-(2,2-dimethyl-propyl-carbonyloxy)-5-spiro-cyclopentyl-3-dihydrofuranone-2;  
 (7) extenders (dilutents) and/or surface active agents  
 ACTIVITY - Pesticidal; insecticidal; acaricidal; nematocidal.  
 MECHANISM OF ACTION - None given in the source material.  
 USE - The composition is useful for the control of insects and acarina in agriculture, horticulture and forestry, in the protection of stores and materials and in the general hygiene field. The composition can also be used for the control of other animal pests, especially nematodes.  
 ADVANTAGE - Components (A) and (B)-(F) have a synergistic effect.  
 Dwg.0/0  
 FS CPI  
 FA AB; DCN  
 MC CPI: C04-A07C; C04-A08C2; C04-A10G; C05-B01P; C06-A03; C07-H; C10-A12C; C10-A13D; C10-A18; C10-A19; C10-D03; C14-B04; **C14-S09**  
 TECH UPTX: 20020815  
 TECHNOLOGY FOCUS - AGRICULTURE - Preferred Composition: The weight ratios of component (A) to components (B)-(F) are 1:0.02-20 (B), 1:1-80 (C), 1:1-60 (D), 1:0.2-50 (E) and 1:0.2-60 (F).  
 ABEX UPTX: 20020815  
 ADMINISTRATION - The composition is used in an amount of 10-3000 g/ha to treat plants and 10-4000 g/ha to treat soil. The amount used to treat seeds is 0.001-50 g/kg seeds.  
 EXAMPLE - Lantana camara plants which were heavily infested with all stages of *Trialeurodes vaporariorum* were sprayed at intervals of 7 days with a composition containing Neem-Azal (RTM; neem tree seed extract) (30 g/ha) and thiacloprid (100 g/ha). Evaluation 15 days after the 2nd spraying showed 91.9% kill rate compared with 28.6% using the extract alone and 72.8% using thiacloprid alone.

=> d his

(FILE 'HOME' ENTERED AT 15:37:13 ON 22 APR 2004)

## SET COST OFF

FILE 'REGISTRY' ENTERED AT 15:37:25 ON 22 APR 2004

L1           1 S E3  
             E IMIDACLOPRID/CN  
 L2           1 S E3  
             E PERMETHRIN/CN  
             SEL RN L1  
 L3           172 S E1/CRN  
             SEL RN L2  
 L4           253 S E2/CRN  
 L5           1 S L3 AND L4  
 L6           0 S L3 NOT MXS/CI  
 L7           5 S L4 NOT MXS/CI

FILE 'HCAPLUS' ENTERED AT 15:38:49 ON 22 APR 2004

L8           3 S L5  
 L9           1327 S L1  
 L10          1325 S IMIDACLOPRID?  
 L11          163 S GAUCHO OR CONFIDOR OR PROVADO  
 L12          1506 S L9-L11  
 L13          4613 S L2  
 L14          4425 S PERMETHRIN?  
 L15          5154 S COOPER OR AMBUSH  
 L16          4 S L7  
 L17          10208 S L13-L16  
 L18          85 S L12 AND L17  
 L19          1 S L18 AND (US20020103233/PN OR WO2001-US44084/AP, PRN)  
 L20          1 S L18 AND ARTHUR R?/AU  
 L21          5 S L18 AND BAYER?/PA, CS  
 L22          5 S L19-L21  
 L23          6 S L8, L22  
 L24          26 S L18 AND MIX?  
 L25          3 S L23 AND L24  
 L26          6 S L23, L25  
 L27          48 S L18 AND (COMPOSITION OR FORMUL? OR SYNERG? OR COMBIN?)  
 L28          80 S L18 NOT L26  
 L29          80 S L28 AND L18-L28  
 L30          47 S L29 AND (PD<=20001130 OR PRD<=20001130 OR AD<=20001130)  
 L31          46 S L30 AND (INSECT? OR PEST? OR ACARICID?)  
 L32          44 S L30 AND AGR?/SC, SX  
 L33          29 S L30 AND AGR/RL  
 L34          47 S L30-L33  
             SEL DN AN 6 L34  
 L35          1 S E3-E5 AND L34  
 L36          7 S L26, L35

FILE 'HCAPLUS' ENTERED AT 15:55:34 ON 22 APR 2004

FILE 'REGISTRY' ENTERED AT 15:55:41 ON 22 APR 2004

FILE 'WPIX' ENTERED AT 15:56:06 ON 22 APR 2004

L37          223 S L10/BIX  
             E IMIDACLOPRID/DCN  
             E E3+ALL  
 L38          289 S E2 OR L37  
 L39          512 S L14/BIX  
             E PERMETHRIN/DCN  
             E E3+ALL  
 L40          917 S E2 OR 2079/DRN OR L39  
 L41          43 S L38 AND L40  
 L42          11 S L41 AND P86?/M0, M1, M2, M3, M4, M5, M6  
 L43          10 S L41 AND (B12-C09 OR C12-C09 OR B14-S09 OR C14-S09)/MC

L44 13 S L42,L43  
L45 41 S L41 AND M782/M0,M1,M2,M3,M4,M5,M6  
L46 13 S L44 AND L45  
SEL DN AN 1-4  
L47 4 S L46 AND E1-E8  
L48 30 S L41 NOT L46

FILE 'WPIX' ENTERED AT 16:03:59 ON 22 APR 2004

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